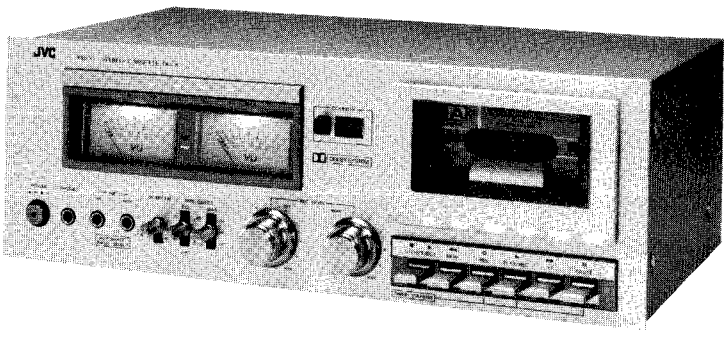
JVC

SERVICE MANUAL

MODEL

KD-10A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4171
April 1978

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The following items are the same as KD-25A/B/C/E/J/U.
Therefore, refer to the service manual (No. 4163) of the KD-25A/B/C/E/J/U.

Main Parts Location	**Main Adjustments**
Removal of the main parts	**Maintenance**

Specifications

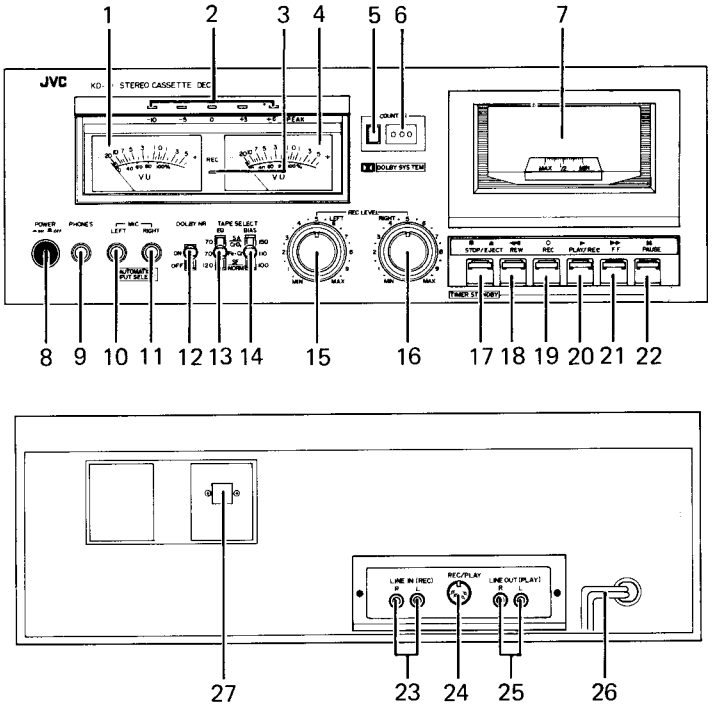
Type	:	Stereo cassette deck
Track system	:	4-track, 2-channel
Cassette	:	C-30, C-60, C-90
Frequency response		
SA/CrO_2 *1	:	30–16,000 Hz (Nominal) 40–15,000 Hz (Typical)
SF/NORM *2	:	30–15,000 Hz (Nominal) 40–14,000 Hz (Typical)
Surpasses DIN 45 500		
*1..... TDK-SA or Equivalent		
*2..... MAXELL-UD or Equivalent		
Signal-to-Noise ratio	:	56 dB (from peak level, weighted) 60 dB with Dolby N.R.(DIN 45 500 weighted) The S/N is improved by 5 dB at 1 kHz and by 10 dB above 5 kHz with Dolby N.R. on.
Wow and flutter	:	0.06% (WRMS) ±0.2% (DIN 45 500)
Crosstalk	:	65 dB
Harmonic distortion (1 kHz, 0 VU, Normal tape *2)	:	Total 1.3% Third 0.5%
Bias	:	AC bias (95 kHz)
Erasure	:	AC erasure (95 kHz)
Heads	:	Recording/playback; Cronios head Eraser; 2-gap, Ferrite head
Motors	:	Electronic DC motor x 1
Tape speed	:	4.8 cm/sec.
Recording time	:	2 x 30 minutes with C-60 cassette
Fast forward time	:	85 sec with C-60 cassette
Rewind time	:	85 sec with C-60 cassette
Semiconductors	:	6 ICs, 1 SCR, 12 transistors and 31 diodes
Input terminals	:	MIC jack x 2 Max. sensitivity; 0.2 mV Matching impedance; 600Ω–10kΩ Input jack x 2 Min. input level; 80 mV Input impedance; 100 kΩ
Output terminals	:	Output jack x 2 Output level; 410 mV Output impedance; 3 kΩ Matching impedance; 50 kΩ or more Headphone jack x 1 Output level; 0.3 mW Matching impedance; 8Ω–1kΩ
DIN socket	:	Min. input level; 0.1 mV/kΩ Input impedance; 10 kΩ Output level; 410 mV Output impedance; 3 kΩ
Power requirement	:	AC 120 V, 60 Hz (KD-10C/J) AC 240/220/120 V, 50/60 Hz (KD-10A/B/E) AC 240/220/120/100 V, 50/60 Hz (KD-10U)
Power consumption	:	11 W
Dimensions	:	Width; 16-9/16" (420 mm) Height; 5-7/8" (149 mm) Depth; 10-7/16" (264 mm)
Weight	:	11.7 lbs (5.3 kg)

Design and specifications are subject to change without notice.

Features

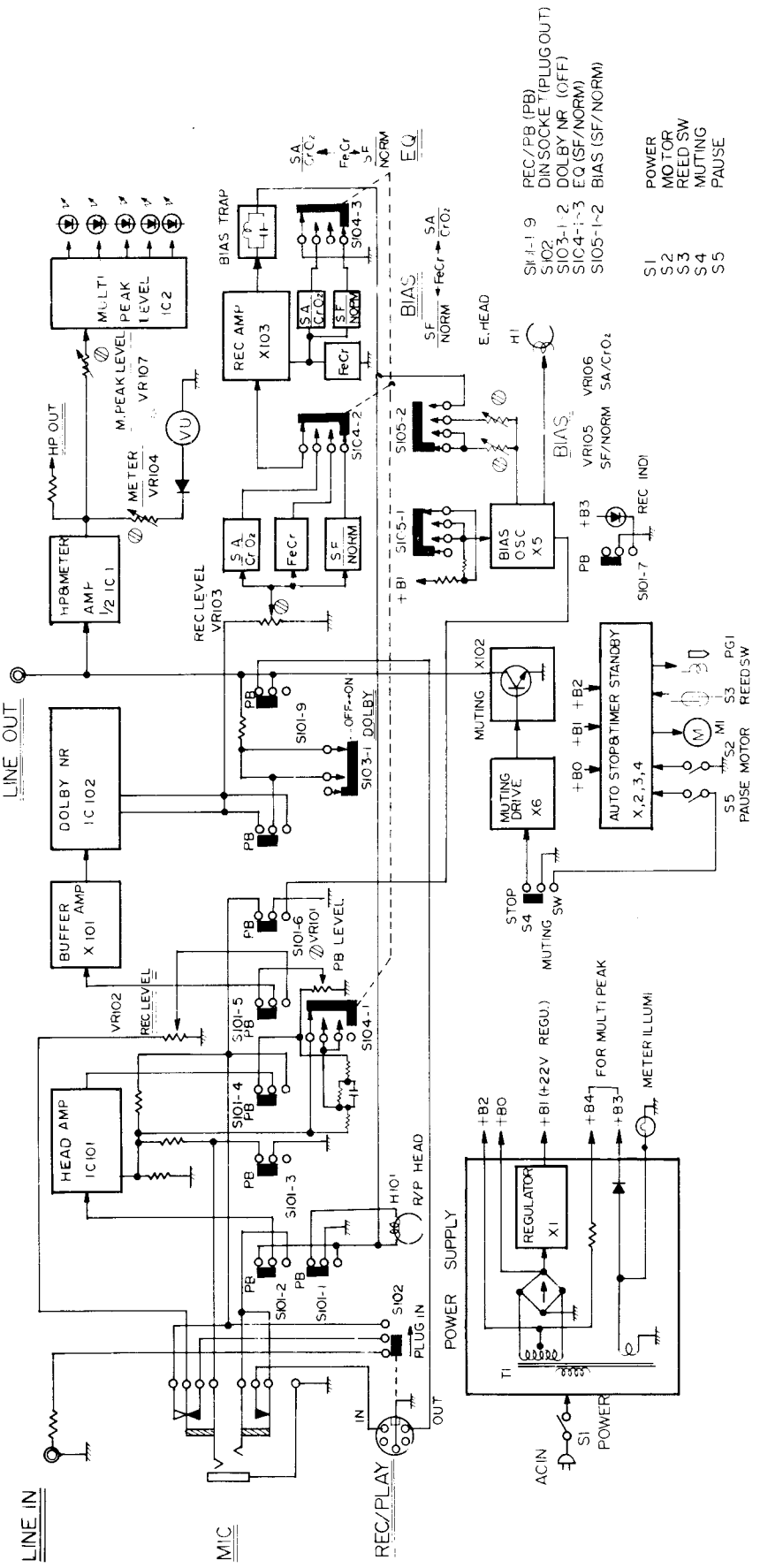
- Vertical, open-view cassette type
- Cronios Head (for recording/playback), 2-Gap, Ferrite Head (for eraser)
- High-performance mechanical system of new type
- Geared and oil-damped cassette door
- Multi-point peak level indicators
- ICized Dolby N.R. circuit
- Automatic input select switching (MIC-DIN · LINE)
- Tape select switch (3 select for BIAS or EQ)
- Timer Recording and playback available
- Rack handle (optionally available, BH-140E) mountable

Controls and Connections

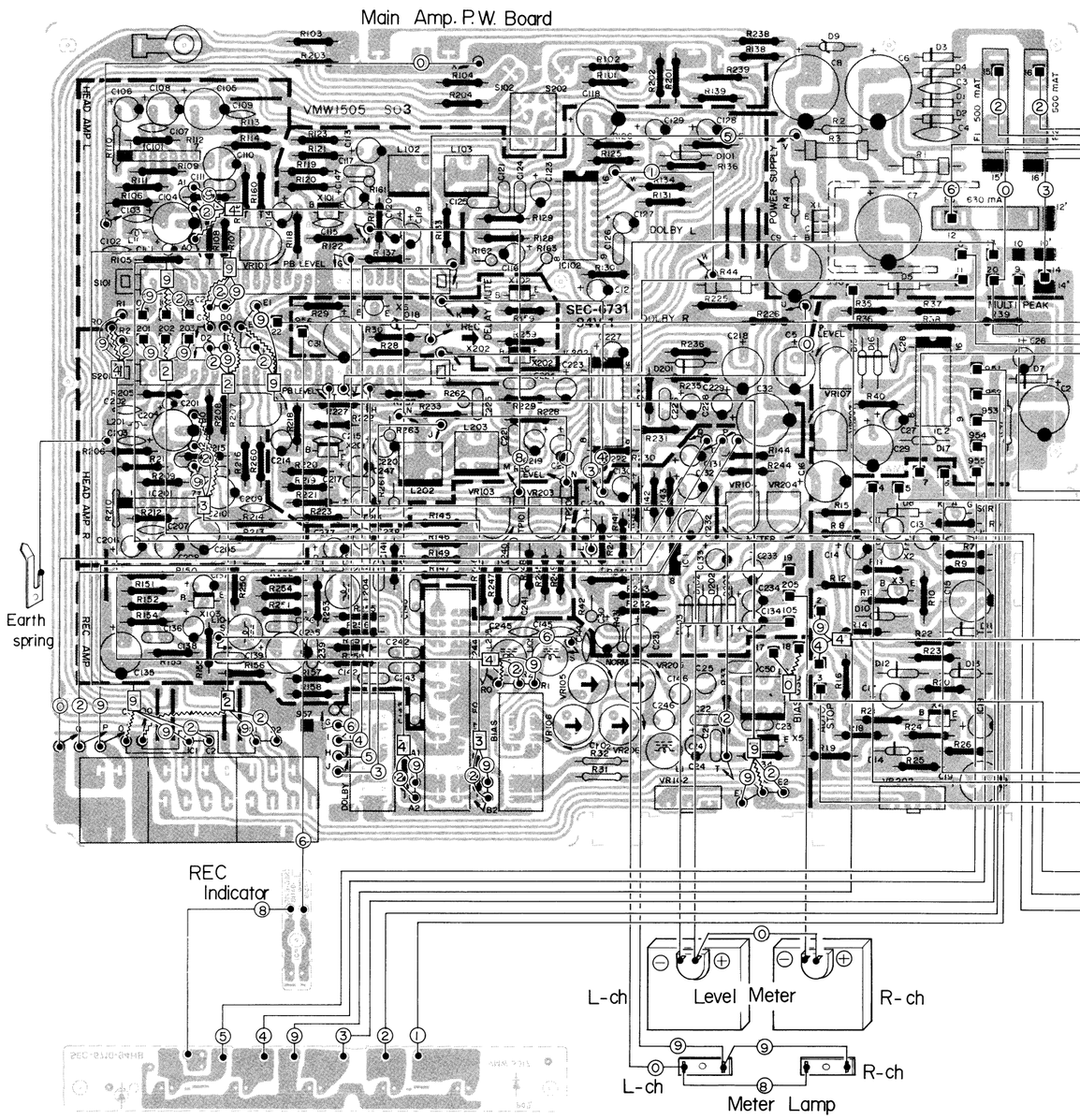


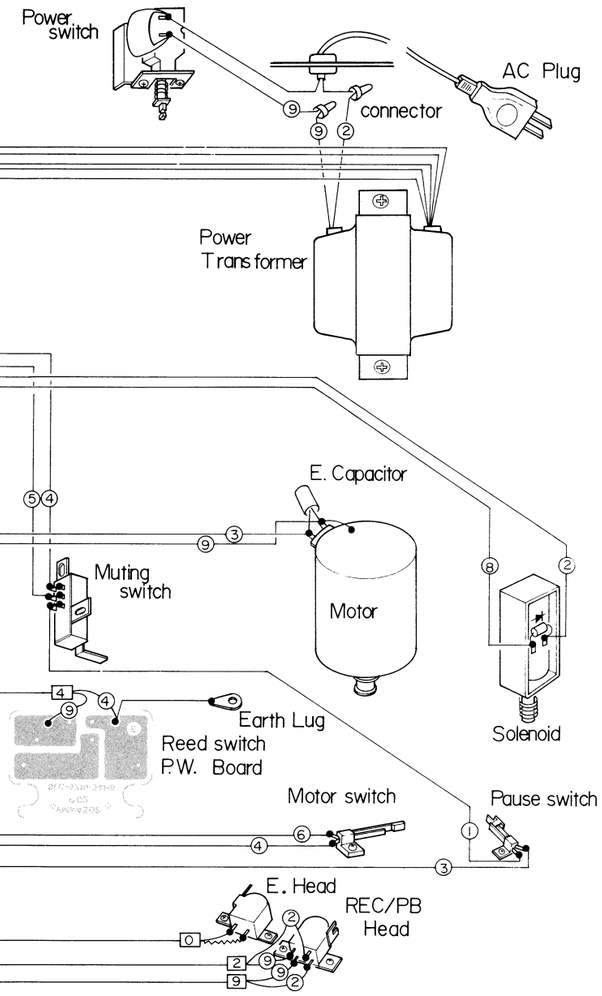
1. Left channel level meter
2. Multi-peak level indicators
3. REC indicator
4. Right channel level meter
5. Counter reset button
6. Tape counter
7. Cassette door
8. Power switch
9. Headphone jack [PHONES]
10. Left channel Microphone jack [MIC-LEFT]
11. Right channel Microphone jack [MIC-RIGHT]
12. Dolby N.R. switch
13. Equalizer switch [TAPE SELECT – EQ]
14. Bias switch [TAPE SELECT – BIAS]
15. Left channel REC level control
16. Right channel REC level control
17. Stop/Eject button [■ STOP/≜ EJECT]
18. Rewind button [◀◀ REW]
19. Recording button [○ REC]
20. Playback button [▶ PLAY/REC]
21. Fast forward button [▶▶ FF]
22. Pause button [II PAUSE]
23. LINE IN terminals
24. DIN socket [REC/PLAY]
25. LINE OUT terminals
26. Power cord
27. Voltage select switch (KD-10A/B/E/U)

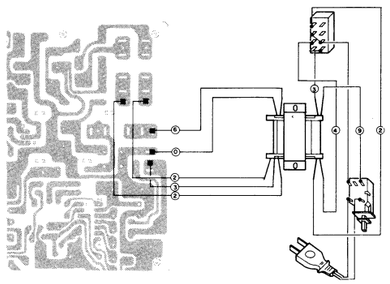
Block Diagram

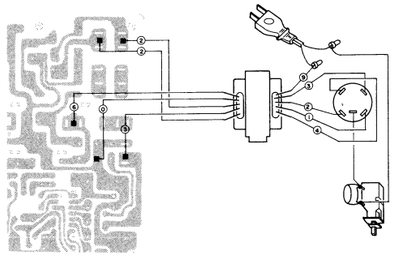


Wiring of KD-10





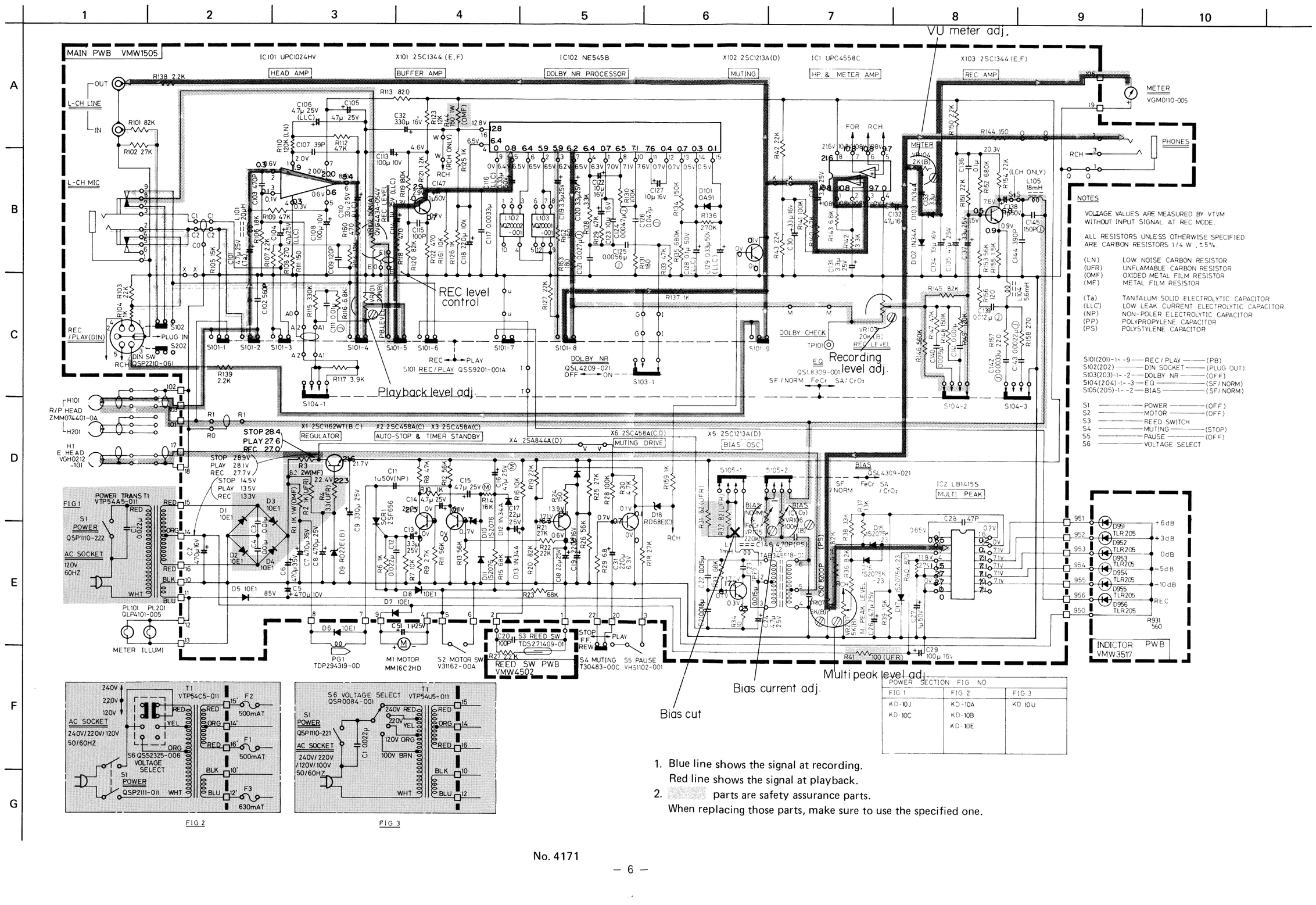




Color code are shown below.

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Grey
9 ..... White
0 ..... Black

Standard Schematic Diagram of KD-10



NOTES

VOLTAGE VALUES ARE MEASURED BY VTVM WITHOUT INPUT SIGNAL AT REC MODE.

ALL RESISTORS UNLESS OTHERWISE SPECIFIED ARE CARBON RESISTORS 1/4 W , ±5%.

(LN)	LOW NOISE CARBON RESISTOR
(UFR)	UNFLAMABLE CARBON RESISTOR
(OMF)	OXIDED METAL FILM RESISTOR
(MF)	METAL FILM RESISTOR
(Ta)	TANTALUM SOLID ELECTROLYTIC CAPACITOR
(LLC)	LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
(NP)	NON-POLER ELECTROLYTIC CAPACITOR
(PP)	POLYPROPYLENE CAPACITOR
(PS)	POLYSTYLENE CAPACITOR

S101(201)-1~-9 —— REC / PLAY —— (PB)
S102(202) —— DIN SOCKET —— (PLUG OUT)
S103(203)-1~-2 —— DOLBY NR —— (OFF)
S104(204)-1~-3 —— EQ —— (SF / NORM)
S105(205)-1~-2 —— BIAS —— (SF / NORM)

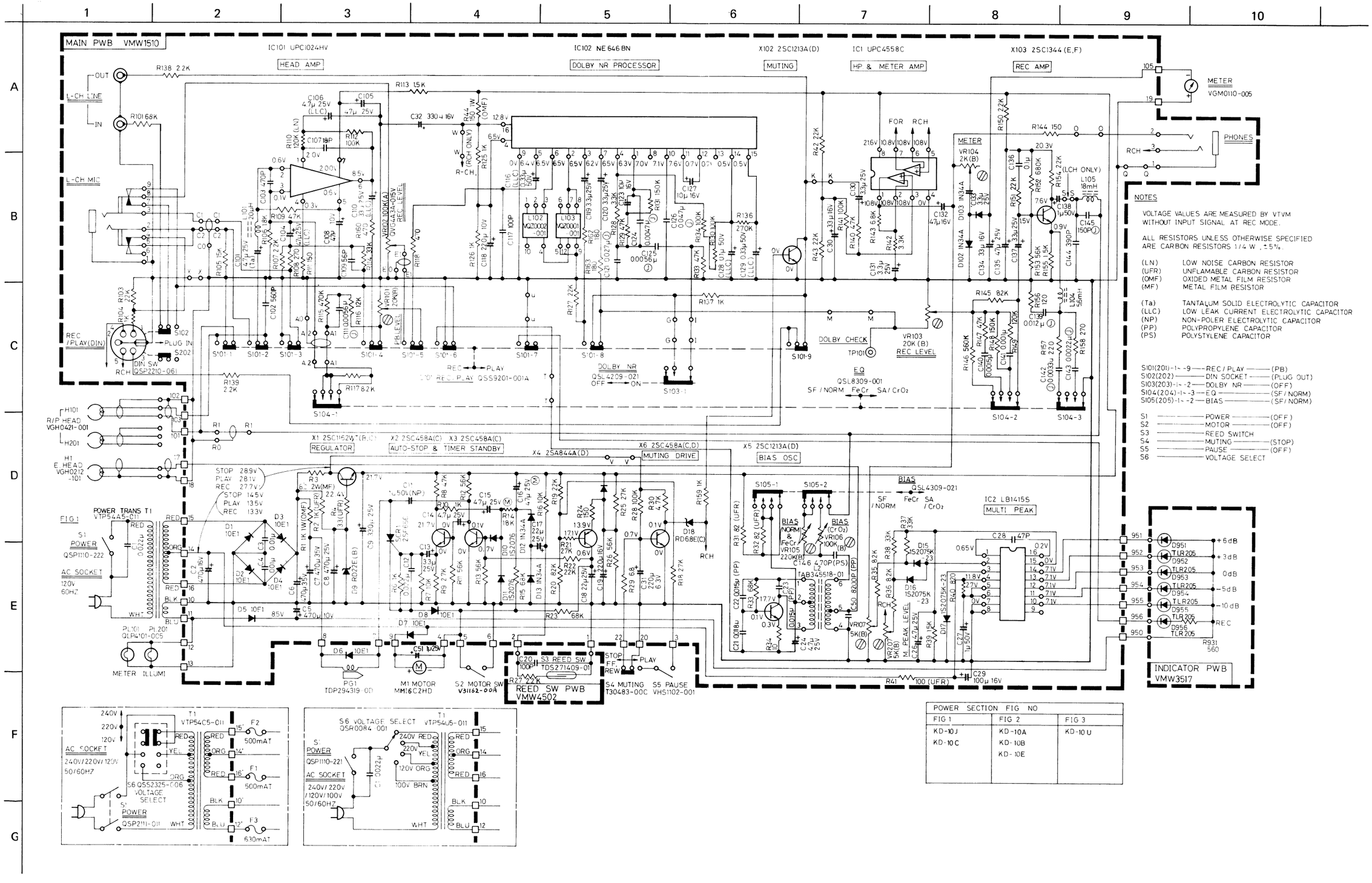
S1	POWER	(OFF)
S2	MOTOR	(OFF)
S3	REED SWITCH	
S4	MUTING	(STOP)
S5	PAUSE	(OFF)
S6	VOLTAGE SELECT	

POWER SECTION FIG NO		
FIG 1	FIG 2	FIG 3
KD-10J KD-10C	KD-10A KD-10B KD-10E	KD-10U

1. Blue line shows the signal at recording.
   Red line shows the signal at playback.
2. ▨ parts are safety assurance parts.
   When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram of KD-10

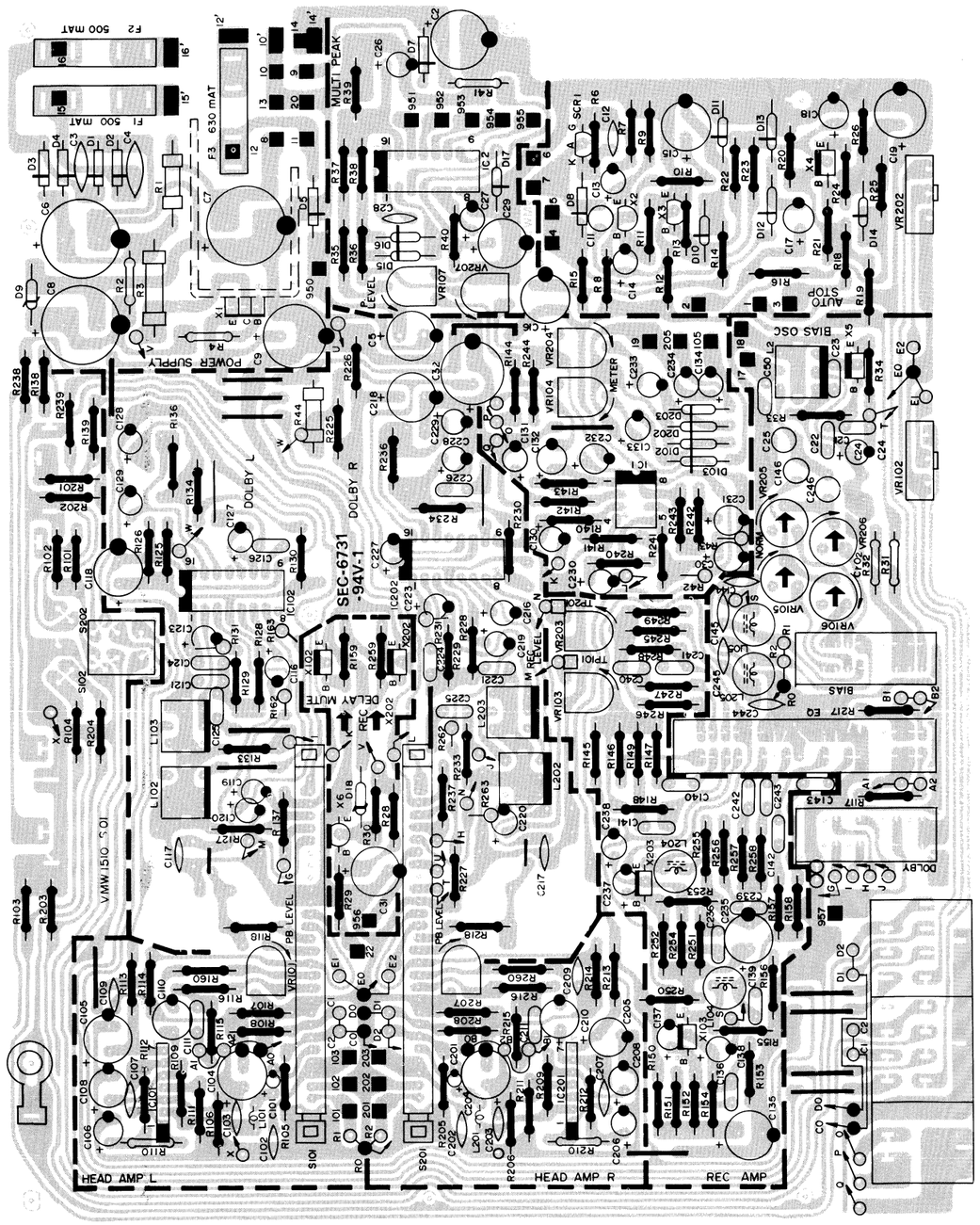
This schematic diagram shows to use a new integrated circuit (IC102NE646BN) for Dolby N.R.



POWER SECTION FIG NO		
FIG 1	FIG 2	FIG 3
KD-10J KD-10C	KD-10A KD-10B KD-10E	KD-10U

Main Amp P.W. Board Parts

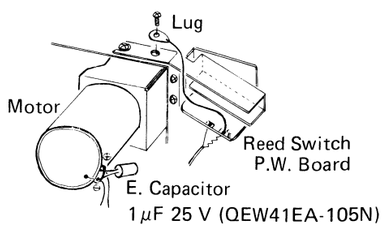
These P.W. board parts and list show to use a new integrated circuit (IC102 P646N) for Dolby N.R.



Ref. No.	Parts No.		Parts Name	Remarks	Q'ty
	Cancel	Addition			
R119, 219	QRD141K-184	–	C. Resistor		2
R120, 220	" -823	–	"		2
R121, 221	" -122	–	"		2
R122, 222	" -471	–	"		2
R123, 223	" -123	–	"		2
R131, 231	–	QRD143K-154	"		2
C116, 216	QEB41HM-334	QEB41HM-224	LLC. E. Capacitor		2
VR102, 202	QVG4A3A-054F	*QVG4A3A-015F	V. Resistor		2
IC101, 201	NE545B	P646N	I.C.		2
X101, 201	2SC1344(E, F)	–	Transistor		2
C115, 215	QCS31HK-101Z	–	C. Capacitor		2
C122, 222	QEW61CA-106ZN	–	E. Capacitor		2
C247	QEW41AA-105N	–	"		1
C147	QEW61HA-105ZN	–	"		1
L1	VQP0001-102	–	Inductor		1
D101, 201	OA90	–	Ge. Diode		2
D1, 2, 3, 4	10E1	10E1-B	Si. Diode		4
D5, 7, 8	10E1	10E1-B	"		3
R134, 234	QRD141K-154	QRD141K-104	C. Resistor		2
R161, 261	QRD143K-103	–	"		2
C102, 202	QCS31HK-391Z	QCS31HK-271Z	C. Capacitor		2
C107, 207	QCS11HK-390	QCS11HK-180	"		2
C108, 208	QEW61AA-107ZN	QEW61AA-476ZN	E. Capacitor		2
C109, 209	QCS31HK-121E	QCS31HK-560Z	C. Capacitor		2
C113, 213	QEW61AA-107ZN	–	E. Capacitor		2
C114, 214	QEB41HM-104M	–	LLC. E. Capacitor		2
	*VMW1505-003	*VMW1510-001	P.W. Board	No supply as parts assembly	1
R112, 212	QRD141K-473	QRD141K-104	C. Resistor		2
R113, 213	QRD141K-821	QRD141K-152	"		2
R114, 214	QRD141K-123	QRD141K-333	"		2
R115, 215	QRD141K-334	QRD141K-474	"		2
R116, 216	QRD141K-682	QRD141K-123	"		2
R117, 217	QRD141K-392	QRD141K-822	"		2
R131, 231	QRD141K-181	–	"		2

Repair Guide

1. **To reduce the motor noise**
   When soldering E. Capacitor (C51, 1 μF 25 V) to motor wire terminals, solder earth ⊖ tip of E. Capacitor to motor case, as following in illustration.
2. **To reduce the reed switch noise**
   Connect the wire and lug from earth pattern of reed switch P.B. board to the mechanical chassis. (When fastening the lug, use the same screw fastening the reed switch P.W. board bracket.)



[Variable resistors]

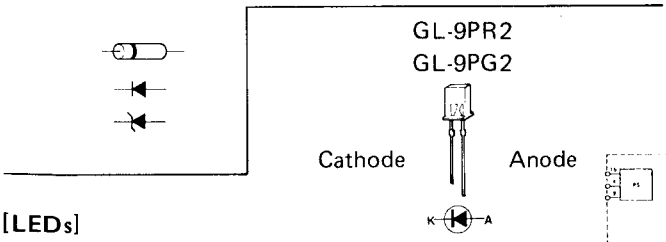
VR101, 201	QVP8A0B-024 (20 kΩ)	Playback level adj.
VR102, 202	QVG4A3A-054F (50 kΩ) (QVG4A3A-015F = at used IC102 NE646BN)	Recording level control (on the front plate)
VR103, 203	QVP8A0B-024 (20 kΩ)	Recording level adj.
VR104, 204	QVP8A0B-023 (2 kΩ)	Meter adj.
VR105, 205	QVP4A0B-224 (220 kΩ)	Bias adj.
VR106, 206	QVP4A0B-104 (100 kΩ)	Bias adj.
VR107, 207	QVP8A0B-053 (5 kΩ)	Multi peak-level adj.

[Switches]

S101-1~9	QSS9201-001A	Slide switch for REC/PB at PB mode	
S102	QSP2210-061	Push switch for DIN at output mode	
S103	QSL4209-021	Lever SW for Dolby at off mode	
S104-1~3	QSL8309-001	Lever SW for Equalizer at normal position	
S105-1~2	QSL4309-021	Lever SW for Bias at normal position	
S901	T30483-00C	Switch ass'y for Muting	
S902	VSH1102-001	Switch ass'y for Pause	
S903	V31162-00A	Leaf SW for Motor	
S904	OSP2111-011	KD-10A/E	Power SW
	QSP2111-011BS	KD-10B	
	QSP1110-222	KD-10C/J	
	QSP1110-221	KD-10U	
S905	TDS271409-01	Reed SW	
	QSS2325-006	KD-10A/E	Voltage select SW
	QSS2325-006BS	KD-10B	
	QSR0084-001	KD-10U	

[Diodes]

D101, 201	0A91	Ge. Diode
D102, 202, 103, 203, 12, 13	1N34A	Ge. Diode
D1, 2, 3, 4, 5, 7, 8	10E1	Si. Diode
D9	RD22E(B)	Zener Diode
D10, 11, 14	1S2076	Si. Diode
D15, 16, 17	1S2075K-23	Si. Diode
D18	RD6.8E(C)	Zener Diode



[LEDs]

D951~956	GL-9PR2	LED (Red)
D957	GL-9PG2	LED (Green)

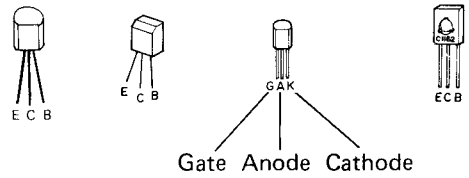
[SCR]

SCR1	2SF656	SCR

[Transistors]

X101, 201, 103, 203	2SC1344(E, F)
X102, 202	2SC1213A(D)
X1	2SC1162WT(BC)
X2, 3	2SC458A(C)
X4	2SA844(D)
X5	2SC1213A(D)
X6	2SC458A(C, D)

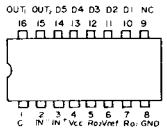
2SF656 2SC1162



[ICs]

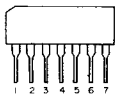
IC101, 201	UPC1024HV
IC102, 202	NE545B
IC1	UPC4558C
IC2	LB1415S

LB1415S

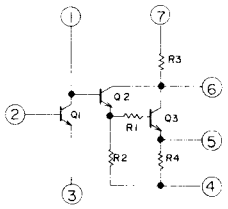


(Top View)

UPC1024H

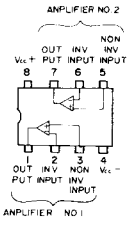


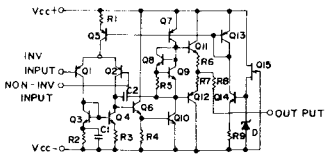
Equivalent circuit



UPC4558C

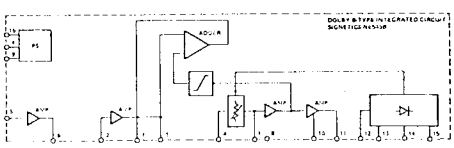
Equivalent circuit (1/2)

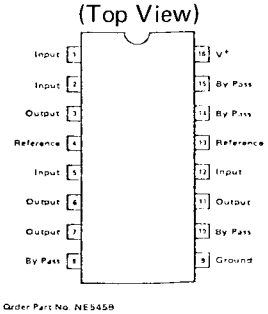




NE545B

(Top View)





Order Part No. NE545B

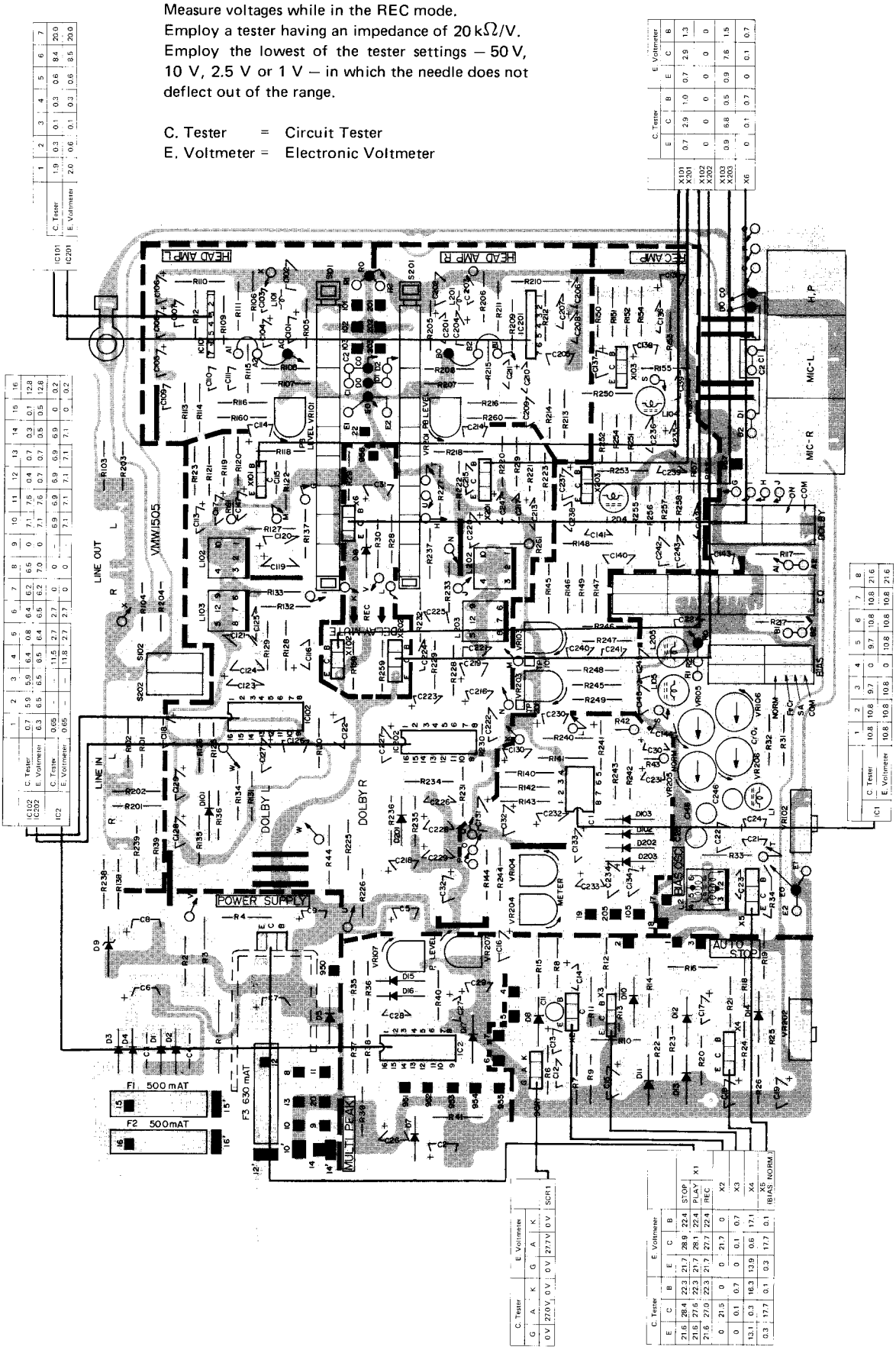
No. 4171

P.W. Board

Main Amp P.W. Board Parts

Measure voltages while in the REC mode.
Employ a tester having an impedance of 20 kΩ/V.
Employ the lowest of the tester settings — 50 V, 10 V, 2.5 V or 1 V — in which the needle does not deflect out of the range.

C. Tester = Circuit Tester
E. Voltmeter = Electronic Voltmeter



Main Amp P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VMW1505-003	P. W. Board	No supply as the parts ass'y	1
R101, 201, 120, 220, 145, 245, 20	QRD141K-823	C. Resistor	82 kΩ ¼ W	7
R102, 202, 18, 21, 25	" -273	"	27 kΩ "	5
R103, 203, 127, 227, 154, 254, 19, 22, 151, 251	" -223	"	22 kΩ "	10
R104, 204, 125, 225, 126, 226, 137, 237, 159, 259, 6, 10	" -102	"	1 kΩ "	12
R105, 205, 39	" -153	"	15 kΩ "	3
R106, 206	" -182	"	1.8 kΩ "	2
R107, 207, 138, 238, 139, 239, 150, 250	" -222	"	2.2 kΩ "	8
R108, 208, 158, 258	" -271	"	270 Ω "	4
R109, 209, 112, 212, 129, 229, 133, 233, 140, 240, 147, 247	" -473	"	47 kΩ "	12
R111,211,144,244, 24	" -151	"	150 Ω "	5
R113, 213, 40	" -821	"	820 Ω "	3
R114, 214, 123, 223	" -123	"	12 kΩ "	4
R115, 215	" -334	"	330 kΩ "	2
R116, 216, 143, 243	" -682	"	6.8 kΩ "	4
R117, 217	" -392	"	3.9 kΩ "	2
R118, 218, 122, 222	" -471	"	470 Ω "	4
R119, 219	" -184	"	180 kΩ "	2
R121, 221	" -122	"	1.2 kΩ "	2
R128, 228, 142, 242	" -332	"	3.3 kΩ "	4
R130, 230, 141, 241, 28	" -104	"	100 kΩ "	5
R131, 231	" -181	"	180 Ω "	2
R134, 234, 148, 248	" -154	"	150 kΩ "	4
R135, 235, 152, 252	" -684	"	680 kΩ "	4
R136, 236	" -274	"	270 kΩ "	2
R146, 246	" -564	"	560 kΩ "	2
R149, 249	" -124	"	120 kΩ "	2
R37, 38	" -333	"	33 kΩ "	2
R153, 253, 11, 13	" -563	"	56 kΩ "	4
R155, 255	" -152	"	1.5 kΩ "	2
R156, 256	" -121	"	120 Ω "	2
R157, 257	" -221	"	220 Ω "	2
R160, 260	" -471	"	470 Ω "	2
R7	" -103	"	10 kΩ "	1
R8	" -472	"	4.7 kΩ "	1
R9	" -272	"	2.7 kΩ "	1
R12	" -562	"	5.6 kΩ "	1
R14	" -183	"	18 kΩ "	1
R15, 23, 33	" -683	"	68 kΩ "	3
R16	" -103	"	10 kΩ "	1
R26	" -563	"	56 kΩ "	1
R29	" -6R8	"	6.8 Ω "	1
R30	" -472	"	4.7 kΩ "	1
R34	" -100	"	10 Ω "	1
R35, 36	" -822	"	8.2 kΩ "	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	QWY123-022	Bus Wire		15
R110, 210	QRZ0019-124	L.N.C. Resistor	120 kΩ	2
R42, 43	QRD143K-223	C. Resistor	22 kΩ ¼ W	2
R162, 262, 163, 263	" -181	"	180 Ω "	4
R161, 261	" -103	"	10 kΩ "	2
R1	QRG016J-102	O.M.F. Resistor	1 kΩ 1 W ⚠	1
R2	QRD146K-102	U.F. Resistor	1 kΩ ¼ W ⚠	1
R3	QRX029J-8R2	M.F. Resistor	8.2 kΩ	1
R4	QRD146K-330	U.F. Resistor	33 Ω ¼ W ⚠	1
R44	QRG016J-151	O.M.F. Resistor	150 Ω 1 W ⚠	1
R31, 32	QRD146K-151	U.F. Resistor	150 Ω ¼ W ⚠	2
R41	" -101	"	100 Ω " ⚠	1
C101, 201	QEE41EM-475	Ta. E. Capacitor	4.7 μF 25 V	2
C102, 202	QCS11HK-391	C. Capacitor	390 pF 50 V	2
C103, 203	" -471	"	470 pF "	2
C104, 204	QEB41EM-476M	Low Leak E. Capacitor	470 pF 25 V	2
C105, 205	QEW41EA-476N	E. Capacitor	470 μF "	2
C106, 206	QEB41EM-475	Low Leak E. Capacitor	4.7 μF "	2
C107, 207	QCS11HK-390	C. Capacitor	39 pF 50 V	2
C108, 208, 113, 213	QEW41AA-107N	E. Capacitor	100 μF 10 V	4
C109, 209	QCS11HK-121	C. Capacitor	120 pF 50 V	2
C110, 210	QEB41EM-336M	Low Leak E. Capacitor	33 μF 25 V	2
C110, 211	QFM11HJ-103	Mylar Capacitor	0.01 μF 50 V	2
C114, 214	QEB41HM-104M	Low Leak E. Capacitor	0.1 μF "	2
C115, 215	QCS11HK-101	C. Capacitor	100 pF "	2
C116, 216	QEB41HM-334M	Low Leak E. Capacitor	0.33 μF "	2
C117, 217	QFM41HK-332	Mylar Capacitor	0.0033 μF "	2
C118, 218	QEW41AA-227N	E. Capacitor	220 μF 10 V	2
C119, 219, 220	QEW41EA-335N	"	3.3 μF 25 V	3
C120	QEW41EA-335N	"	3.3 μF "	1
C121, 221	QFM41HJ-273	Mylar Capacitor	0.027 μF 50 V	2
C122, 222, 123, 223	QEW41CA-106N	E. Capacitor	10 μF 16 V	4
C124, 224	QFM41HJ-472	Mylar Capacitor	0.0047 μF 50 V	2
C225	" -562	"	0.0056 μF "	1
C125	QFM11HJ-562	"	0.0056 μF "	1
C126, 226	QFM41HJ-473	"	0.047 μF "	2
C127, 227	QEW41CA-106N	E. Capacitor	10 μF 16 V	2
C128, 228	QEB41HM-104M	Low Leak E. Capacitor	0.1 μF 50 V	2
C129, 229	" -334M	"	0.33 μF "	2
C130,230,131,231,137,237	QEW41EA-335N	E. Capacitor	3.3 μF 25 V	6
C232	QEW41CA-476N	"	47 μF 16 V	1
C132	QEW41CA-476N	"	47 μF "	1
C233	QEW41EA-335N	"	3.3 μF 25 V	1
C133	QEW41EA-335N	"	3.3 μF "	1
C134	QEW41CA-336N	"	33 μF 16 V	1
C234	QEW41CA-336N	"	33 μF "	1
C135, 235	QEW41EA-476N	"	47 μF 25 V	2
C136, 236	QFM11HK-104	Mylar Capacitor	0.1 μF 50 V	2
C138, 238, 247	QEW41HA-105N	E. Capacitor	1 μF "	3
C139, 239	QFM11HJ-123	Mylar Capacitor	0.012 μF "	2
C140, 240	QFM41HK-152	"	0.0015 μF "	2
C141, 241	QFM11HK-102	"	0.001 μF "	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C142, 242	QFM11HJ-332	Mylar Capacitor	0.0033 μF 50 V	2
C143, 243	QFM41HJ-222	"	0.0022 μF "	2
C144, 244	QCS11HK-391	C. Capacitor	390 pF "	2
C145, 245	QCS12HJ-151	"	150 pF "	2
C146, 246	QFS42BK-471	Polystyrene Capacitor	470 pF "	2
C147	QEW41HA-105N	E. Capacitor	1 μF "	1
C2	QEW41CA-477N	"	470 μF 16 V	1
C3, 4	QCF12HP-103	C. Capacitor	0.01 μF 50 V	2
C5	QEW41AA-477N	E. Capacitor	470 μF 10 V	1
C6, 7	QEW41VA-477N	"	470 μF 35 V	2
C8	QEW41EA-477N	"	470 μF 25 V	1
C9	" -337N	"	330 μF "	1
C11	QEN41HA-105N	Non-polar E. Capacitor	1 μF 50 V	1
C12	QCF11HP-223	C. Capacitor	0.022 μF "	1
C13	QEW41EA-335N	E. Capacitor	3.3 μF 25 V	1
C14	QEW41EA-475N	"	4.7 μF "	1
C15, 16	QEW41EA-476N	"	47 μF "	2
C17, 18	QEW41EA-226N	"	22 μF "	2
C19	QEW41CA-227M	"	220 μF 16 V	1
C21	QFM41HK-183	Mylar Capacitor	0.018 μF 50 V	1
C22, 23	QFZ0001-153	Polypropylene Capacitor	0.015 μF	2
C24	QEW41EA-475N	E. Capacitor	4.7 μF 25 V	1
C50	QFZ0001-822	Polystyrene Capacitor	0.0082 μF	1
C26	QEW41EA-475N	E. Capacitor	4.7 μF 25 V	1
C27	QEW41HA-105N	"	1 μF 50 V	1
C28	QCS11HK-470	C. Capacitor	47 pF 50 V	1
C29	QEW41CA-107N	E. Capacitor	100 μF 16 V	1
C30	" -336N	"	33 μF "	1
C31	QEW41JA-227N	"	220 μF "	1
C32	QEW41CA-337N	"	330 μF 16 V	1
L101, 201	TAC000493-01	Inductor		2
L102, 202	VQZ0002-001	Dolby Filter		2
L103, 203	VQZ0001-001	"		2
L104, 204	VQP0001-562	Inductor		2
L105, 205	" -183	"		2
L1	" -102	"		1
L2	TAB345518-01	Osc. Coil		1
D101, 201	0A91	Ge. Diode		2
D102,202,103,203,12,13	1N34A	"		6
D1, 2, 3, 4, 5, 7, 8	10E1	Si. Diode		7
D9	RD22E(B)	Zener Diode		1
D10, 11, 14	1S2076	Si. Diode		3
D15, 16, 17	1S2075K-23	"		3
D18	RD6.8E(C)	Zener Diode		1
VR101, 201, 103, 203	QVP8A0B-024	V. Resistor	20 kΩ	4
VR102, 202	QVG4A3A-054F	"	50 kΩ	2
VR104, 204	" -023	"	2 kΩ	2
VR105, 205	QVP4A0B-224	"	220 kΩ	2
VR106, 206	" -104	"	100 kΩ	2
VR107, 207	QVP8A0B-053	"	5 kΩ	2
SCR1	2SF656	SCR		1
IC101, 201	UPC1024HV	I.C.		2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
IC201, 202	NE545B	I.C.		2
IC1	UPC4558C	"		1
IC2	LB1415S	"		1
X101, 201, 103, 203	2SC1344(E, F)	Transistor		4
X102, 202, 5	2SC1213A(D)	"		3
X1	2SC1162WT(B, C)	"		1
X2, 3	2SC458A(C)	"		2
X4	2SA844(D)	"		1
X6	2SC458A (C, D)	"		1
	QSS9201-005A	Slide Switch	for REC/PB	2
	VMJ5002-002	Jack Ass'y	for MIC & HP	1
	VMJ6002-001	"	for Pin & DIN	1
	QSP2210-061	Push Switch	for DIN	1
	QSL4209-021	Lever Switch	Dolby	1
	QSL4309-021	"	Bias	1
	QSL8309-001	"	EQ	1
	TAR272448-01	Heat Sink	for X1	1
	LPSP3008ZS	Screw	"	1
	E43727-002	Tab	Wrapping	34
	E40516-001	"	for P.T. Wire	5
	TAZ000331-02	Fuse Holder		6
	QMF51A2-R50LBS	Fuse	KD-10B	2
	" -R50	"	KD-10A/E	2
	" -R63SBS	"	KD-10B	1
	" -R63	"	KD-10A/E	1
	V44221-001	Special Lug	for Shield Plate	1

Other P.W. Board Parts

Multi-peak level indicator

REC indicator

Reed switch

Other P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
(Multi-Peak Level Indicator)				
	VMW3517-003	P.W. Board (1)	Indicator	1
R931	QRD142K-561	C. Resistor	560 Ω ¼ W	1
D951–955	TLR-205	LED	RED	5
	VYH4234-001	LED Holder		1
(REC Indicator)				
	VMW4519-001	P.W. Board	REC Indicator	1
D956	TLR-205	LED		1
(Reed Switch)				
	VMW4502-002	P.W. Board	Reed Switch	1
	TDS271409-01	Reed Switch		1
	TER271414-01	Spacer		1
R27	QRD142K-222	C. Resistor	2.2 kΩ ¼ W	1
C20	QCS11HK-101	C. Capacitor	100 pF 50 V	1

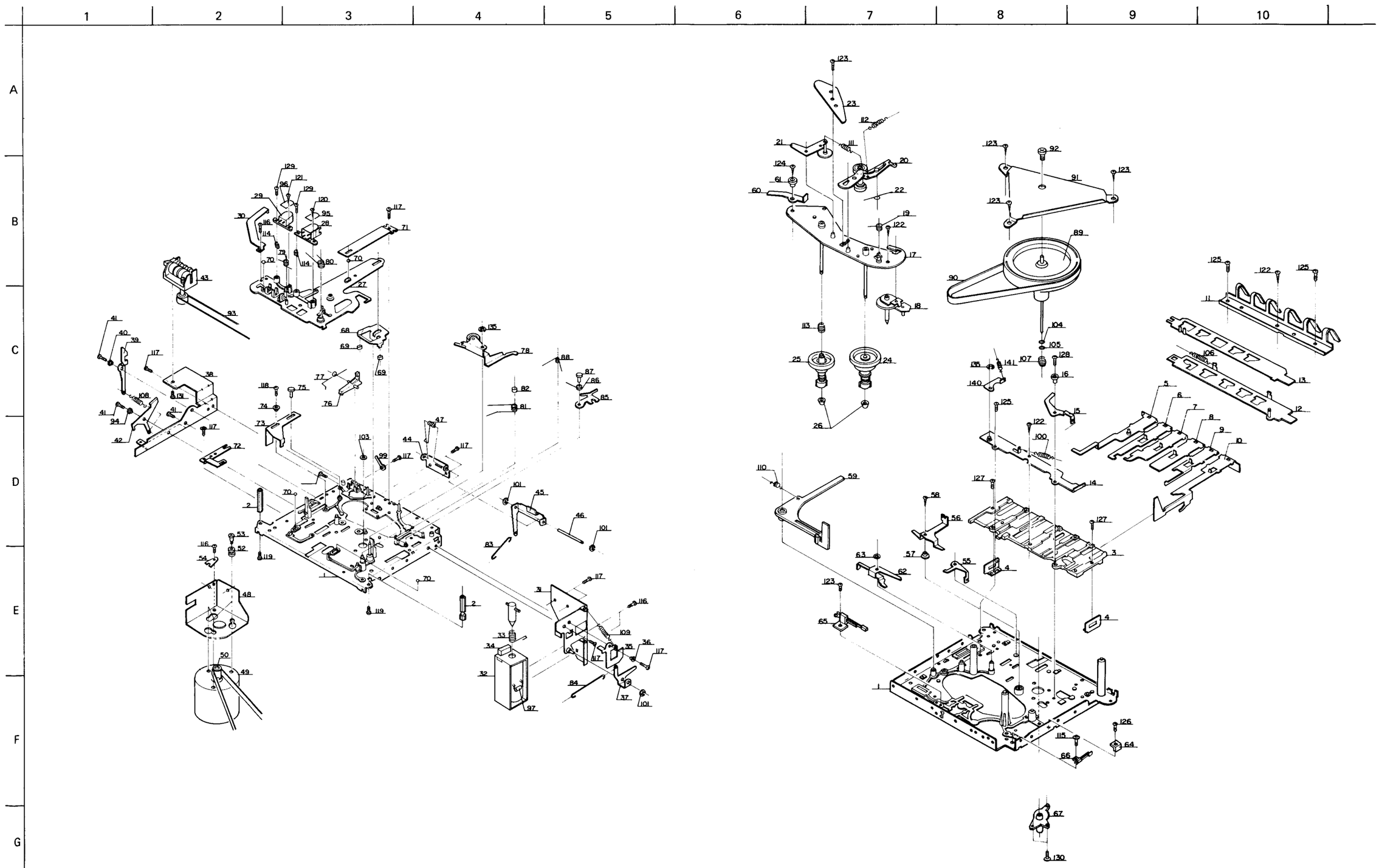
Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	TGC357101-0C	Chassis Base Ass'y		1
2	VKH4153-001	Stud	(Right-002)	1
3	TEP357103-01	Push Bar Case		1
4	TFB357409-01	Cam Guide Bracket		2
5	VKL4171-00B	Stop Eject Bar Ass'y		1
6	VKL4117-002	Rewind Bar		1
7	VKL4118-001	Recording Bar		1
8	TGB357413-0C	Play Bar Ass'y		1
9	VKL4120-002	F.F. Bar		1
10	VKL4173-001	Pause Bar		1
11	TFP357301-03	Button Spring		1
12	TGB357302-0H	Push Bar Cam (1) Ass'y		1
13	VKL3130-002	Push Bar Cam (2)		1
14	VKL4245-00B	Push Bar Plate Ass'y		1
15	VKL4175-001	Kick Arm		1
16	T43909-008	Metal		1
17	TGP357305-0A	Reel Disk Bracket Ass'y		1
18	TGP357425-0E	Take Up Bar Ass'y		1
19	TFW357403-02	Take Up Bar Spring		1
20	TGB357438-0A	F.F. Arm Ass'y		1
21	TGB357447-0A	Rew Idler Arm Ass'y		1
22	TFW357446-01	F.F. Arm Spring		1
23	TFB357451-01	Arm Stopper		1
24	TGP357431-0D	Reel Disk Ass'y	(Take-up)	1
25	TGP357431-0C	"	(Supply)	1
26	TEP357437-02	Reel Stopper		2
27	TGB357202-0C	Head Base Ass'y		1
28	ZMM074401-0	REC/PB Head Ass'y		1
29	VGH0212-101	E. Head Ass'y		1
30	VKL4223-001	Switch Bar		1
31	VKL4176-00A	Solenoid Bracket Ass'y		1
32	TDP294319-0D	D.C. Solenoid	(or-0DT)	1
33	VKW4108-001	Spring		1
34	TJN265423-09	Panel Cushion		1
35	VKL4178-001	Timer Recording Arm		1
36	VKH3001-004	Flange Collar		1
37	VKL4179-001	Stop Arm (1)		1
38	VKL3117-002	Counter Bracket		1
39	VKL4180-002	Lock Arm		1
40	VKH3001-005	Flange Collar		1
41	T42483-004	F.T. Screw	for Counter Bracket	1
42	VKL4181-001	Safety Arm		1
43	VKC5108-00A	Counter Ass'y		1
44	VKL4183-001	Holder Bracket		1
45	VKL4184-001	Pressure Arm		1
46	VKH4126-001	Shaft		1
47	VKW4109-001	Spring		1
48	VKL4185-001	Motor Bracket		1
49	MMI-6C2HD	Motor		1
50	VKR4101-00A	Motor Pulley		1
52	TER357465-02	Cushion Rubber		3
53	VKZ4109-001	Motor Screw		3
54	TFB345469-01	Rubber Stopper		1
55	VKL4115-001	Rec Lock Lever		1
56	TFB357453-01	F.F. Lever		1
57	VKH4103-001	Collar		1
58	GPSA2608Z	W. Tapping Screw		1
59	TEP357422-02	Brake Lever		1
60	VKL4186-001	Kick Arm		1

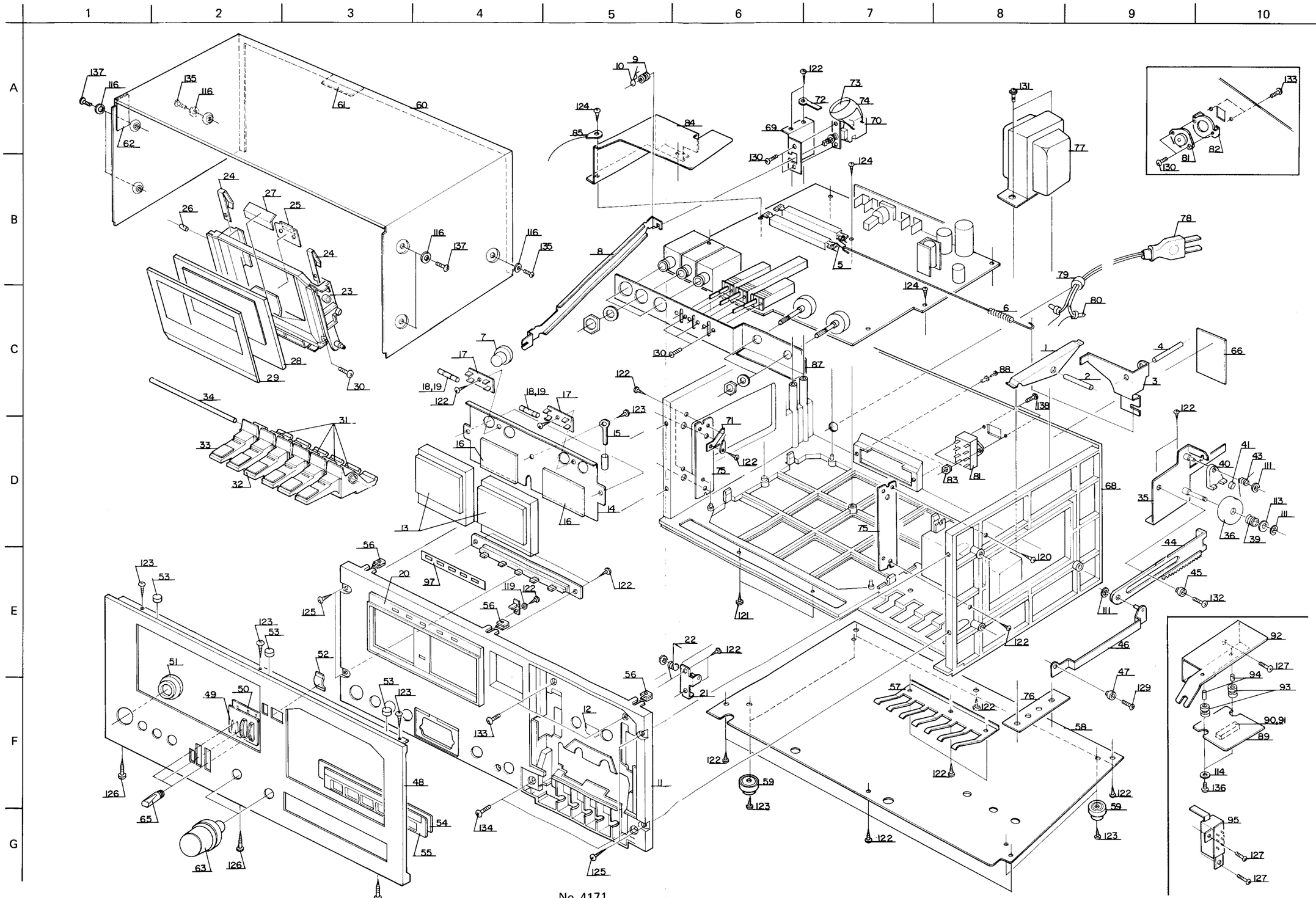
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
61	VKH4103-001	Collar		1
62	TFB357452-02	Rewind Lever		1
63	TEP357421-03	Special Washer		1
64	TEP361406-01	Pause Bar Guide		1
65	V31162-001	Leaf Switch	for Motor	1
66	VSH1102-001	Switch Ass'y	for Pause	1
67	VKF3101-00A	Capstan Metal Ass'y		1
68	VKL4248-001	Brake Bar		1
69	TER313493-01	Brake Rubber		2
70	T41615-004	Steel Ball	Chassis base~Head base	4
71	VKY4115-001	Spring Plate		1
72	TFP357460-03	Head Base Spring Plate		1
73	VKL4187-001	Rec. Push Bar		1
74	VKH3001-002	Flange Collar		1
75	TEP357469-02	Stopper		1
76	TEP357406-03	Rec. Safety Lever		1
77	TFW357471-01	Rec. Safety Lever Spring		1
78	TGB291415-0D	Pinch Roller Arm Ass'y		1
79	TFW361408-01	Rec. Lock Lever Spring		1
80	TFW357467-04	Head Base Spring		1
81	TFW357463-02	Pinch Roller Spring		1
82	VKH3000-005	Collar		1
83	VKW4110-003	Wire	Pressure Arm – L23	1
84	VKW4110-002	"	Auto Stop – L34,5	1
85	VKL4228-001	Pause Lock Cam		1
86	VKW4127-001	Pause Lock Cam Spring		1
87	TEP357469-02	Stopper	for Pause lock cam	1
88	TFW357470-02	Take Up Spring		1
89	VKF3102-00B	Flywheel Ass'y		1
90	VKB3001-003H	Belt	for Capstan	1
91	VKL4122-001	Flywheel Bracket		1
92	TED349420-01	Thrust Screw		
93	VKB3000-003H	Belt	for Counter	1
94	VKH3001-005	Flange Collar		1
95	TJL000430-01	Head Plate		1
96	THS000489-02	Head Label		1
97	10DE1	Si. Diode	for Solenoid S10	1
99	V42603-003	Wire Clamp		6
100	T30300-211	Spring	F.F. Lever	1
101	REE2000	"E" Ring	Stop arm (1), Presser arm	3
103	Q03053-522	Washer	ϕ2.4 x ϕ5.5 x t0.5 for oil cut	1
104	" -627	"	ϕ2.6 x ϕ7.5 x t0.3 for thrust	1
105	" -827	"	ϕ2.6 x ϕ4.7 x t0.25 for thrust	1
106	VKW3000-001	Tension Spring	Cam (1)	1
107	VKW3001-010	Spring	for thrust	1
108	T30300-153	Tension Spring	for Safety arm, Rock arm	1
109	" -187	"	Timer recording arm	1
110	" -204	"	Brake lever	1
111	" -205	"		1
112	VKW3002-001	"		1
113	T30301-145	Compression Spring	Back tension	1
114	" -148	"	REC/PB Head	2
115	SDSP2606Z	Screw	Pause Switch	1
116	LPSP2604Z	"	SW bar, DC solenoid Rubber stopper, Spring plate, Head base spring plate	5

– To be continued on page 17 –

Mechanical Component



Enclosure Assembly and Electrical Parts List (Except P.W. Board Parts)



— Continued from page 14 —

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
117	LPSP2605Z	Screw	Timer recording arm Presser arm, Motor bracket Counter bracket	7
118	LPSP2606Z	〃	Recording push bar	1
119	LPSP3006Z	〃	Stud	2
120	SBSB2006Z	Tapping Screw	REC/PB Head	1
121	SBSB2008Z	〃	E Head	1
122	SBSB2606Z	〃	Button Spring, Push button plate, Arm stopper	3
123	SBSB2608Z	〃	Flywheel bracket, Reel disk bracket, Motor switch	5
124	SBSB2610Z	〃	Reel disk bracket	1
125	SDSP2608Z	Screw	Push bar case	3
126	SPSP2008Z	〃	Pause bar guide	1
127	SPSP2604Z	〃	Cam guide bracket	2
128	SPSP2605Z	〃	Kick arm	1
129	SPSX2012Z	〃	REC/PB Head, E Head	2
130	SSSP2004Z	〃	Capstan Metal	3
131	SSSP3008ZS	〃	Counter	1
135	REE2500	"E" Ring	Pinch roller ass'y	1
140	VKL4244-001	Select Lever		1
141	VKW3000-014	Spring	Select lever~Guide bracket	1

Enclosure Assembly and Electrical Parts List (Except P.W. Board Parts)

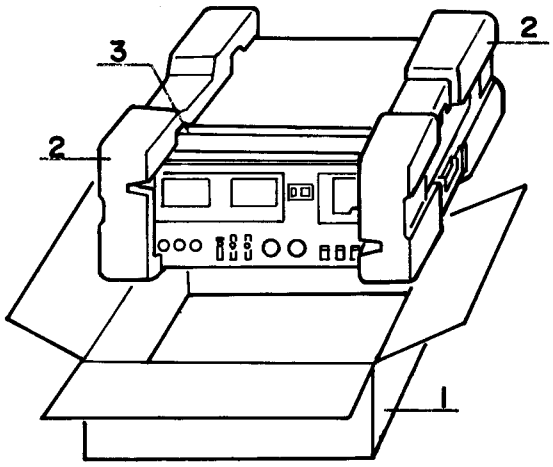
Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL4163-001	Rec. Arm (1)		1
2	VKH4121-003	Shaft		1
3	VKL4164-001	Rec. Arm (2)		1
4	VKH4121-002	Shaft		1
5	T47946-001	Rec. Rod		1
6	VKW4107-001	Spring		1
7	VXP4016-001	Power SW. Button		1
8	VYH4192-003	Bar		1
9	53492	Rubber Bushing		1
10	E48981-001	Stopper Pin		1
11–12,20	ZCKD10-CBF-1	Front Panel Ass'y		1 set
11	VJC1041-002	Front Panel		1
12	V44957-001	Reflection Plate		1
13	VGM0110-005	Level Meter		2
14	VKL3141-002	Meter Bracket		1
15	VKZ4001-010	Wire Holder	for Bracket	2
16	VYSH102-014	Spacer	for Meter Bracket	2
17	QMG1121-003	Lamp Holder		2
18	QLP4101-005	Lamp		2
19	VJZ4006-001	Lamp Shade		2
20	VJD4170-001	LED Cover		1
21	VKL4190-00A	Spring Bracket Ass'y		1
22	VKW4119-001	Spring		1
23	VJT2013-003	Cassette Holder		1
24	VKY4134-002	Cassette Spring (1)		2
25	VKY4135-001	Cassette Spring (2)		1
26	TFH294507-02	Spacer		1
27	VJD4169-001	Lid Plate		1
28–29	ZCKD10-CCA	Cassette Door Ass'y		1 set
28	VJT3022-002	Cassette Door		1
29	VJT3023-003	Cassette Door Plate		1
	VJZ4013-001	Double Face		1
30	VJZ4011-00A	Screw Ass'y	for Cassette Holder	1
31	VXP3007-001	Push Button		4
32	" -002	"	Red	1
33	" -003	"	Blue	1
34	VYH4177-001	Shaft		1
35	VKL4169-00A	Gear Frame Ass'y		1 set
36	VKS4108-003	Spur Gear		1
37	VKS4109-004	Brake Drum		1
39	VKW3001-006	Spring		1
40	VKS4110-002	Brake Arm		1
41	VKZ4111-001	Rubber Tire		1
42	VKL4271-001	Rubber Retainer		1
43	VKW4106-001	Torsion Spring		1
44	VKS3102-001	Rack Plate		1
45	VKH4123-001	Collar		1
46	VKL4152-00B	Lever Ass'y	for Cassette Holder	1
47	VKH4103-001	Collar		1
48	*VJC1040-002	Front Plate		1
49	VJD4133-001	Lever Escutcheon		1
50	VYTA410-001	Blind		1
51	VJD4167-001	Power Escutcheon		1
52	VJK4106-001	Counter Lens		1
53	VYSA1R8-027	Spacer	for Front Plate	6

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
54	VJD3124-002	Escutcheon		1
55	VJD4168-001	Escutcheon Plate		1
56	TFB313563-01	Plate Nut		3
57	VKY4111-002	Button Spring	for Amp Chassis	1
58	VKL2103-001	Bottom Cover		1
59	VJF3001-001	Foot		4
60	VJC1018-003	Top Cover		1
61	VYSH110-015	Spacer		1
62	VKL4246-001	Bracket		1
63	VXL3001-001	Volume Knob (1)	KD-10A/C/J (-002 = KD-10B/E/U)	2
64	TLT356404-01	Dolby Label		1
65	VXQ4002-001	Lever Knob		3
66	*VYN2031-002HA	Name Plate	KD-10A	1
	* " -001HA	"	KD-10B	1
	* " -003HA	"	KD-10C	1
	* " -004HA	"	KD-10E	1
	* " -005HA	"	KD-10J	1
	* " -006HA	"	KD-10U	1
67	VKZ4001-007	Wire Holder	for Muting	2
68	VYH1105-002	Chassis		1
69	VKL4165-001	Switch Bracket		1
70	QSP2111-011	Power Switch	KD-10A/E ⚠	1
	" -011BS	"	KD-10B ⚠	1
	QSP1110-222	"	KD-10C/J ⚠	1
	" -221	"	KD-10U ⚠	1
71	VKY4125-002	Earth Spring	for Top Cover Earth	1
72	VKZ4001-011	Wire Holder	for Power Cord KD-10A/B/E	1
73	QFA72BM-223	M.P. Capacitor	KD-10C, C1 0.022μF ⚠	1
	QFH72BM-223	M.M. Capacitor	KD-10J, C1 0.022μF ⚠	1
	QFH53AM-223	"	KD-10U, C1 0.022μF ⚠	1
74	T47047-001	Capacitor Boot	KD-10J/U ⚠	1
75	VKL4254-002	Bracket		2
76	VKL4167-001	Trans. Bracket		1
77	VTP54C5-011	Power Transformer	KD-10A/E ⚠	1
	" -011BS	"	KD-10B ⚠	1
	VTP54A5-011K	"	KD-10C/J ⚠	1
	VTP54U5-011	"	KD-10U ⚠	1
78	QMP2500-200	Power Cord	KD-10A ⚠	1
	QMP9017-007BS	"	KD-10B ⚠	1
	QMP1200-244	"	KD-10C/J ⚠	1
	QMP3900-244	"	KD-10E ⚠	1
	QMP7600-183	"	KD-10U ⚠	1
79	QHS3876-252	Strain Relief	KD-10A/E ⚠	1
	" -252BS	"	KD-10B ⚠	1
	QHS3056-252	"	KD-10C/J/U ⚠	1
80	TAW000504-01	Wire Connector	KD-10A/B/E/C ⚠	2
81	QSS2325-006BS	Slide Switch	for Voltage Selector KD-10B ⚠	1
	" -006	"	" KD-10A/E ⚠	1
	QSR0084-001	Voltage Select Switch	KD-10U ⚠	1
82	VKL4275-001	Bracket	for Voltage Selector KD-10U	1
83	NTB3000S	Nut	" KD-10B	2
84	*VKL4257-003	Shield Plate		1
85	51739-002	Lug	for Shield Plate	1
86	50242-5	Lug	for Mecha. Earth	1
87	VKL3109-003	Volume Bracket		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
88	E48729-003	Plastic Rivet	for Pin & DIN Bracket	2
89	VMW4502-002	P.W. Board	for Reed Switch	1
90	TDS271409-01	Reed Switch		1
91	TER271414-01	Spacer		1
92	VKL4263-001	Bracket		1
93	53492	Rubber Bushing		2
94	T30302-063	Collar		2
95	T30483-00C	Switch Ass'y	Muting	1
96	NNB3000S	Nut	for Cassette Holder	1
97	VYH4234-001	LED Holder		1
98	TJS344534-01	Spacer		3
99	Q03093-524	Washer		1
110	WNS3000N	Washer	for Foot	1
111	REE2000	"E" Ring	for Brake Arm	5
112	REE3000	"	for Spring Bracket	1
113	WNS2600Z	Washer	for Brake Arm x 1, Brake Drum x 1	2
114	WNB3000NS	"	for Reed Switch Bracket x 2	2
116	Q03093-502	Washer	for Top Cover	6
117	" -401	"	for Door Plate	2
118	" -607	"	" "	2
119	Q03095-205	"	for REC Indicator P.W. Board	1
120	SBSB3006Z	Tapping Screw	for Side Bracket x 1, E. Spring x 1	2
121	SBSB3008V	"	for Volume Bracket	3
122	SBSB3008Z	"	for Earth Spring x 1, Bracket x 1, Lamp Holder x 2, Peak Level Indicator P.W. Board x 2, REC Indicator P.W. Board x 1, Spring Bracket Ass'y x 2, Frame Ass'y x 2, Bottom Cover x 5, Button Spring x 3	19
123	SBSB3010Z	Tapping Screw	for Bracket x 2, Meter Bracket x 3, Foot x 4	9
124	SBSB3012V	"	for P.W. Board	5
125	SBSB3012Z	"	for Front Panel	4
126	SBSB3014Z	"	for Bottom Cover x 1, Front Plate x 2	3
127	LPSP2605Z	Screw	for Muting	2
128	LPSP2606Z	"	for Counter Bracket x 2, Shield Plate x 2	4
129	LPSP2608Z	"	for Gear Brake Ass'y	1
130	LPSP3006ZS	"	for Power Switch x 2, Lever Switch x 2, Voltage Select Switch x 2 (KD-10U)	6
131	DPSP4018ZS	"	for Power Transformer	2
132	SDBP2606N	"	for Spring Bracket Ass'y	1
133	SDBP3006NS	"	for Mecha. Ass'y x 2, Voltage Select Bracket x 2 (KD-10U)	4
134	SDBP3020NS	"	for Mecha. Ass'y	2
135	SDSB4010R	"	for Top Cover	2
136	SPSP2610Z	"	for Reed Switch Bracket	2
137	SDSP4014RS	"	for Top Cover	4
138	SDBP3010RS	"	for Voltage Selector (KD-10B)	2
	QEW41EA-105N	E. Capacitor	for Motor (1 μF 25 V) C51	1

Packing



Packing Material Parts

* marks are new parts.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*VPA3025-00B	Packing Ass'y	KD-10A/B/E/J/U	1 set
	VPA3025-00C	Packing Ass'y	KD-10C	1
1	*VPA3025-004	Case	KD-10A/B/E/J/U	1
	VPA3025-005	Case	KD-10C	1
2	*VPH2104-001	Cushion	Left & Right	2
3	*VPA3009-003	Plate		1
	QPGA060-06005	Envelope	for the Set	1
	AP4056-036	"	for Provided Cords	2
	QPGB024-03404	"	for Instruction Book	1
	TKS000501-01	Seat	for the Set	1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VMP0002-00A	PIN Cord	KD-10A/C/J/U	2
CN-201	DIN Cord	KD-10B/E	1
T47796-00B	Head Cleaning Stick		2
AP4056A-024	Envelope	for H.C. Stick	1
VNN0023-301	Instruction Book		1
TLT000429-01	Caution Card	for H.C. Stick	1
TLJ000443-01	Seal	KD-10B	1
BT20029	Warranty Card	KD-10A	1
BT20032	"	KD-10J	1
TLT052401-01	Warning Label	KD-10A	1
TLT052401-01BS	"	KD-10B	1
QZL1002-003BS	"	KD-10B	1
TLT000505-01	No User Service Caution	KD-10B for Bottom	1
BT20024B	Special Reply Card	KD-10J	1
T46328-003	Caution Label	KD-10A/B	1
T44362-001	CSA Label	KD-10C	1
T46328-004	Caution Label	KD-10E	1
BT20015	Warranty Card	KD-10U	1
BT20013B	Guarantee Certificate	KD-10B	1
TLT000505-01	UL/CSA Caution Label	KD-10C/J	2
VNC5004-001	Mark Sticker	KD-10B/E	1
T46328-01	Caution Card	KD-10J	1
V04062-001	Siemens Plug	KD-10U	1
TLT356404-01	Dolby Label	KD-10A/B/E	1
TJL294422-01	"	KD-10C	1
BT20025B	Warranty Card	KD-10C	1